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Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100          105

<210> SEQ_ID NO 187
<211> LENGTH: 109
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: HIP3 Light Chain

<400> SEQUENCE: 187

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1           5           10          15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20          25          30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35          40          45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50          55          60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65          70          75          80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85          90          95

Thr Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100         105

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What is claimed is:

1. An isolated antibody or antibody fragment that binds to a SARS-CoV-2 surface spike protein, wherein the antibody or fragment comprises
  - (a) a CDRH1 comprising the amino acid sequence of SEQ ID NO:59, a CDRH2 comprising the amino acid sequence of SEQ ID NO:60, a CDRH3 comprising the amino acid sequence of SEQ ID NO:61, a CDRL1 comprising the amino acid sequence of SEQ ID NO:89, a CDRH2 comprising the amino acid sequence of SEQ ID NO:90, a CDRH3 comprising the amino acid sequence of SEQ ID NO:91;
  - (b) a CDRH1 comprising the amino acid sequence of SEQ ID NO:68, a CDRH2 comprising the amino acid sequence of SEQ ID NO:69, a CDRH3 comprising the amino acid sequence of SEQ ID NO:70, a CDRL1 comprising the amino acid sequence of SEQ ID NO:98, a CDRH2 comprising the amino acid sequence of SEQ ID NO:99, a CDRH3 comprising the amino acid sequence of SEQ ID NO:100;
  - (c) a CDRH1 comprising the amino acid sequence of SEQ ID NO:41, a CDRH2 comprising the amino acid sequence of SEQ ID NO:42, a CDRH3 comprising the amino acid sequence of SEQ ID NO:43, a CDRL1 comprising the amino acid sequence of SEQ ID NO:71, a CDRH2 comprising the amino acid sequence of SEQ ID NO:72, a CDRH3 comprising the amino acid sequence of SEQ ID NO:73;
  - (d) a CDRH1 comprising the amino acid sequence of SEQ ID NO:44, a CDRH2 comprising the amino acid sequence of SEQ ID NO:45, a CDRH3 comprising the amino acid sequence of SEQ ID NO:46, a CDRL1 comprising the amino acid sequence of SEQ ID NO:74,

a CDRH2 comprising the amino acid sequence of SEQ ID NO:75, a CDRH3 comprising the amino acid sequence of SEQ ID NO:76;

- (e) a CDRH1 comprising the amino acid sequence of SEQ ID NO:47, a CDRH2 comprising the amino acid sequence of SEQ ID NO:48, a CDRH3 comprising the amino acid sequence of SEQ ID NO:49, a CDRL1 comprising the amino acid sequence of SEQ ID NO:77, a CDRH2 comprising the amino acid sequence of SEQ ID NO:78, a CDRH3 comprising the amino acid sequence of SEQ ID NO:79;
- (f) a CDRH1 comprising the amino acid sequence of SEQ ID NO:50, a CDRH2 comprising the amino acid sequence of SEQ ID NO:51, a CDRH3 comprising the amino acid sequence of SEQ ID NO:52, a CDRL1 comprising the amino acid sequence of SEQ ID NO:80, a CDRH2 comprising the amino acid sequence of SEQ ID NO:81, a CDRH3 comprising the amino acid sequence of SEQ ID NO:82;
- (g) a CDRH1 comprising the amino acid sequence of SEQ ID NO:53, a CDRH2 comprising the amino acid sequence of SEQ ID NO:54, a CDRH3 comprising the amino acid sequence of SEQ ID NO:55, a CDRL1 comprising the amino acid sequence of SEQ ID NO:83, a CDRH2 comprising the amino acid sequence of SEQ ID NO:84, a CDRH3 comprising the amino acid sequence of SEQ ID NO:85;
- (h) a CDRH1 comprising the amino acid sequence of SEQ ID NO:56, a CDRH2 comprising the amino acid sequence of SEQ ID NO:57 a CDRH3 comprising the amino acid sequence of SEQ ID NO:58, a CDRL1 comprising the amino acid sequence of SEQ ID NO:86, a CDRH2 comprising the amino acid sequence of SEQ